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Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: markspencer

Timestamp: [year=2009; month=4; day=17; hr=9; min=13; sec=27; ms=418;]

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Application No: 10529009 Version No: 3.0

Input Set:

Output Set:

Started: 2009-03-24 19:36:57.775
Finished: 2009-03-24 19:36:58.624
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 849 ms
Total Warnings: 3
Total Errors: 3
No. of SeqIDs Defined: 24
Actual SeqID Count: 24

| Error code | Error Description |
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| W 213 | Artificial or Unknown found in <213> in SEQ ID (19) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (20) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (22) |
| E 257 | Invalid sequence data feature in <221> in SEQ ID (22) |
| E 257 | Invalid sequence data feature in <221> in SEQ ID (22) |
| E 257 | Invalid sequence data feature in <221> in SEQ ID (22) |

SEQUENCE LISTING

<110> SOEJIMA, KENJI
MIMURA, NORIKO
MAEDA, HIROAKI
NOZAKI, CHIKATERU
HAMAMOTO, TAKAYOSHI
NAKAGAKI, TOMOHIRO

<120> ANTIBODY AGAINST VON WILLEBRAND FACTOR CLEAVING ENZYME
AND ASSAY SYSTEM USING THE SAME

<130> 081356-0237

<140> 10529009

<141> 2005-03-24

<150> PCT/JP03/12280

<151> 2003-09-25

<150> JP 2002-279924

<151> 2002-09-25

<150> JP 2002-377569

<151> 2002-12-26

<160> 24

<170> PatentIn version 3.5

<210> 1

<211> 1427

<212> PRT

<213> Homo sapiens

<400> 1

Met His Gln Arg His Pro Arg Ala Arg Cys Pro Pro Leu Cys Val Ala
1 5 10 15

Gly Ile Leu Ala Cys Gly Phe Leu Leu Gly Cys Trp Gly Pro Ser His
20 25 30

Phe Gln Gln Ser Cys Leu Gln Ala Leu Glu Pro Gln Ala Val Ser Ser
35 40 45

Tyr Leu Ser Pro Gly Ala Pro Leu Lys Gly Arg Pro Pro Ser Pro Gly
50 55 60

Phe Gln Arg Gln Arg Gln Arg Gln Arg Arg Ala Ala Gly Gly Ile Leu
65 70 75 80

His Leu Glu Leu Leu Val Ala Val Gly Pro Asp Val Phe Gln Ala His
85 90 95

Gln Glu Asp Thr Glu Arg Tyr Val Leu Thr Asn Leu Asn Ile Gly Ala
100 105 110

Glu Leu Leu Arg Asp Pro Ser Leu Gly Ala Gln Phe Arg Val His Leu
115 120 125

Val Lys Met Val Ile Leu Thr Glu Pro Glu Gly Ala Pro Asn Ile Thr
130 135 140

Ala Asn Leu Thr Ser Ser Leu Leu Ser Val Cys Gly Trp Ser Gln Thr
145 150 155 160

Ile Asn Pro Glu Asp Asp Thr Asp Pro Gly His Ala Asp Leu Val Leu
165 170 175

Tyr Ile Thr Arg Phe Asp Leu Glu Leu Pro Asp Gly Asn Arg Gln Val
180 185 190

Arg Gly Val Thr Gln Leu Gly Gly Ala Cys Ser Pro Thr Trp Ser Cys
195 200 205

Leu Ile Thr Glu Asp Thr Gly Phe Asp Leu Gly Val Thr Ile Ala His
210 215 220

Glu Ile Gly His Ser Phe Gly Leu Glu His Asp Gly Ala Pro Gly Ser
225 230 235 240

Gly Cys Gly Pro Ser Gly His Val Met Ala Ser Asp Gly Ala Ala Pro
245 250 255

Arg Ala Gly Leu Ala Trp Ser Pro Cys Ser Arg Arg Gln Leu Leu Ser
260 265 270

Leu Leu Ser Ala Gly Arg Ala Arg Cys Val Trp Asp Pro Pro Arg Pro
275 280 285

Gln Pro Gly Ser Ala Gly His Pro Pro Asp Ala Gln Pro Gly Leu Tyr
290 300

Tyr Ser Ala Asn Glu Gln Cys Arg Val Ala Phe Gly Pro Lys Ala Val

| | | | | | | |
|-----------------|-----------------|-----------------|-----------------|-----|--|-----|
| 305 | | 310 | | 315 | | 320 |
| Ala Cys Thr Phe | Ala Arg Glu His | Leu Asp Met Cys | Gln Ala Leu Ser | | | |
| | 325 | | 330 | | | 335 |
| Cys His Thr Asp | Pro Leu Asp Gln | Ser Ser Cys Ser | Arg Leu Leu Val | | | |
| | 340 | | 345 | | | 350 |
| Pro Leu Leu Asp | Gly Thr Glu Cys | Gly Val Glu Lys | Trp Cys Ser Lys | | | |
| | 355 | | 360 | | | 365 |
| Gly Arg Cys Arg | Ser Leu Val Glu | Leu Thr Pro Ile | Ala Ala Val His | | | |
| | 370 | | 375 | | | 380 |
| Gly Arg Trp Ser | Ser Trp Gly Pro | Arg Ser Pro Cys | Ser Arg Ser Cys | | | |
| | 385 | | 390 | | | 395 |
| Gly Gly Gly Val | Val Thr Arg Arg | Arg Gln Cys Asn | Asn Pro Arg Pro | | | |
| | 405 | | 410 | | | 415 |
| Ala Phe Gly Gly | Arg Ala Cys Val | Gly Ala Asp Leu | Gln Ala Glu Met | | | |
| | 420 | | 425 | | | 430 |
| Cys Asn Thr Gln | Ala Cys Glu Lys | Thr Gln Leu Glu | Phe Met Ser Gln | | | |
| | 435 | | 440 | | | 445 |
| Gln Cys Ala Arg | Thr Asp Gly Gln | Pro Leu Arg Ser | Ser Ser Pro Gly | Gly | | |
| | 450 | | 455 | | | 460 |
| Ala Ser Phe Tyr | His Trp Gly Ala | Ala Val Pro His | Ser Gln Gly Asp | | | |
| | 465 | | 470 | | | 475 |
| Ala Leu Cys Arg | His Met Cys Arg | Ala Ile Gly Glu | Ser Phe Ile Met | | | |
| | 485 | | 490 | | | 495 |
| Lys Arg Gly Asp | Ser Phe Leu Asp | Gly Thr Arg Cys | Met Pro Ser Gly | | | |
| | 500 | | 505 | | | 510 |
| Pro Arg Glu Asp | Gly Thr Leu Ser | Leu Cys Val Ser | Gly Ser Cys Arg | | | |
| | 515 | | 520 | | | 525 |
| Thr Phe Gly Cys | Asp Gly Arg Met | Asp Ser Gln Gln | Val Trp Asp Arg | | | |
| | 530 | | 535 | | | 540 |

Cys Gln Val Cys Gly Gly Asp Asn Ser Thr Cys Ser Pro Arg Lys Gly
545 550 555 560

Ser Phe Thr Ala Gly Arg Ala Arg Glu Tyr Val Thr Phe Leu Thr Val
565 570 575

Thr Pro Asn Leu Thr Ser Val Tyr Ile Ala Asn His Arg Pro Leu Phe
580 585 590

Thr His Leu Ala Val Arg Ile Gly Gly Arg Tyr Val Val Ala Gly Lys
595 600 605

Met Ser Ile Ser Pro Asn Thr Thr Tyr Pro Ser Leu Leu Glu Asp Gly
610 615 620

Arg Val Glu Tyr Arg Val Ala Leu Thr Glu Asp Arg Leu Pro Arg Leu
625 630 635 640

Glu Glu Ile Arg Ile Trp Gly Pro Leu Gln Glu Asp Ala Asp Ile Gln
645 650 655

Val Tyr Arg Arg Tyr Gly Glu Glu Tyr Gly Asn Leu Thr Arg Pro Asp
660 665 670

Ile Thr Phe Thr Tyr Phe Gln Pro Lys Pro Arg Gln Ala Trp Val Trp
675 680 685

Ala Ala Val Arg Gly Pro Cys Ser Val Ser Cys Gly Ala Gly Leu Arg
690 695 700

Trp Val Asn Tyr Ser Cys Leu Asp Gln Ala Arg Lys Glu Leu Val Glu
705 710 715 720

Thr Val Gln Cys Gln Gly Ser Gln Gln Pro Pro Ala Trp Pro Glu Ala
725 730 735

Cys Val Leu Glu Pro Cys Pro Pro Tyr Trp Ala Val Gly Asp Phe Gly
740 745 750

Pro Cys Ser Ala Ser Cys Gly Gly Gly Leu Arg Glu Arg Pro Val Arg
755 760 765

Cys Val Glu Ala Gln Gly Ser Leu Leu Lys Thr Leu Pro Pro Ala Arg
 770 775 780

Cys Arg Ala Gly Ala Gln Gln Pro Ala Val Ala Leu Glu Thr Cys Asn
 785 790 795 800

Pro Gln Pro Cys Pro Ala Arg Trp Glu Val Ser Glu Pro Ser Ser Cys
 805 810 815

Thr Ser Ala Gly Gly Ala Gly Leu Ala Leu Glu Asn Glu Thr Cys Val
 820 825 830

Pro Gly Ala Asp Gly Leu Glu Ala Pro Val Thr Glu Gly Pro Gly Ser
 835 840 845

Val Asp Glu Lys Leu Pro Ala Pro Glu Pro Cys Val Gly Met Ser Cys
 850 855 860

Pro Pro Gly Trp Gly His Leu Asp Ala Thr Ser Ala Gly Glu Lys Ala
 865 870 875 880

Pro Ser Pro Trp Gly Ser Ile Arg Thr Gly Ala Gln Ala Ala His Val
 885 890 895

Trp Thr Pro Ala Ala Gly Ser Cys Ser Val Ser Cys Gly Arg Gly Leu
 900 905 910

Met Glu Leu Arg Phe Leu Cys Met Asp Ser Ala Leu Arg Val Pro Val
 915 920 925

Gln Glu Glu Leu Cys Gly Leu Ala Ser Lys Pro Gly Ser Arg Arg Glu
 930 935 940

Val Cys Gln Ala Val Pro Cys Pro Ala Arg Trp Gln Tyr Lys Leu Ala
 945 950 955 960

Ala Cys Ser Val Ser Cys Gly Arg Gly Val Val Arg Arg Ile Leu Tyr
 965 970 975

Cys Ala Arg Ala His Gly Glu Asp Asp Gly Glu Glu Ile Leu Leu Asp
 980 985 990

Thr Gln Cys Gln Gly Leu Pro Arg Pro Glu Pro Gln Glu Ala Cys Ser
995 1000 1005

Leu Glu Pro Cys Pro Pro Arg Trp Lys Val Met Ser Leu Gly Pro
1010 1015 1020

Cys Ser Ala Ser Cys Gly Leu Gly Thr Ala Arg Arg Ser Val Ala
1025 1030 1035

Cys Val Gln Leu Asp Gln Gly Gln Asp Val Glu Val Asp Glu Ala
1040 1045 1050

Ala Cys Ala Ala Leu Val Arg Pro Glu Ala Ser Val Pro Cys Leu
1055 1060 1065

Ile Ala Asp Cys Thr Tyr Arg Trp His Val Gly Thr Trp Met Glu
1070 1075 1080

Cys Ser Val Ser Cys Gly Asp Gly Ile Gln Arg Arg Arg Asp Thr
1085 1090 1095

Cys Leu Gly Pro Gln Ala Gln Ala Pro Val Pro Ala Asp Phe Cys
1100 1105 1110

Gln His Leu Pro Lys Pro Val Thr Val Arg Gly Cys Trp Ala Gly
1115 1120 1125

Pro Cys Val Gly Gln Gly Thr Pro Ser Leu Val Pro His Glu Glu
1130 1135 1140

Ala Ala Ala Pro Gly Arg Thr Thr Ala Thr Pro Ala Gly Ala Ser
1145 1150 1155

Leu Glu Trp Ser Gln Ala Arg Gly Leu Leu Phe Ser Pro Ala Pro
1160 1165 1170

Gln Pro Arg Arg Leu Leu Pro Gly Pro Gln Glu Asn Ser Val Gln
1175 1180 1185

Ser Ser Ala Cys Gly Arg Gln His Leu Glu Pro Thr Gly Thr Ile
1190 1195 1200

Asp Met Arg Gly Pro Gly Gln Ala Asp Cys Ala Val Ala Ile Gly

| | | |
|---|------|------|
| 1205 | 1210 | 1215 |
| Arg Pro Leu Gly Glu Val Val Thr Leu Arg Val Leu Glu Ser Ser | | |
| 1220 | 1225 | 1230 |
| Leu Asn Cys Ser Ala Gly Asp Met Leu Leu Leu Trp Gly Arg Leu | | |
| 1235 | 1240 | 1245 |
| Thr Trp Arg Lys Met Cys Arg Lys Leu Leu Asp Met Thr Phe Ser | | |
| 1250 | 1255 | 1260 |
| Ser Lys Thr Asn Thr Leu Val Val Arg Gln Arg Cys Gly Arg Pro | | |
| 1265 | 1270 | 1275 |
| Gly Gly Gly Val Leu Leu Arg Tyr Gly Ser Gln Leu Ala Pro Glu | | |
| 1280 | 1285 | 1290 |
| Thr Phe Tyr Arg Glu Cys Asp Met Gln Leu Phe Gly Pro Trp Gly | | |
| 1295 | 1300 | 1305 |
| Glu Ile Val Ser Pro Ser Leu Ser Pro Ala Thr Ser Asn Ala Gly | | |
| 1310 | 1315 | 1320 |
| Gly Cys Arg Leu Phe Ile Asn Val Ala Pro His Ala Arg Ile Ala | | |
| 1325 | 1330 | 1335 |
| Ile His Ala Leu Ala Thr Asn Met Gly Ala Gly Thr Glu Gly Ala | | |
| 1340 | 1345 | 1350 |
| Asn Ala Ser Tyr Ile Leu Ile Arg Asp Thr His Ser Leu Arg Thr | | |
| 1355 | 1360 | 1365 |
| Thr Ala Phe His Gly Gln Gln Val Leu Tyr Trp Glu Ser Glu Ser | | |
| 1370 | 1375 | 1380 |
| Ser Gln Ala Glu Met Glu Phe Ser Glu Gly Phe Leu Lys Ala Gln | | |
| 1385 | 1390 | 1395 |
| Ala Ser Leu Arg Gly Gln Tyr Trp Thr Leu Gln Ser Trp Val Pro | | |
| 1400 | 1405 | 1410 |
| Glu Met Gln Asp Pro Gln Ser Trp Lys Gly Lys Glu Gly Thr | | |
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Asn Ser Val Gln Ser Ser
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<210> 13
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<210> 14
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<210> 17
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cc 62

<210> 18

<211> 60

<212> DNA

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<213> Artificial Sequence

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<211> 8

<212> PRT

<213> Artificial Sequence

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<211> 4

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<212> PRT
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